

**ABSTRACT**

An infusion system, comprising a housing; and a connecting hub which is attachable to the housing, the connecting hub having an internal Y-shaped flow channel structure which comprises a first flow channel exiting the distal end of the connecting hub; a second flow channel exiting the proximal end of the connecting  
5 hub; and a third flow channel exiting the proximal end of the connecting hub, the first, second and third flow channels all intersecting within the connecting hub.